

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1.-12. (Canceled)

13. (Currently Amended) A physical quantity detecting device comprising:

- a detecting element for detecting a physical quantity;
- a circuit electrically connected to said detecting element;
- a housing protecting said ~~detecting element~~ said circuit in an inside thereof;
- a conductor electrically connecting said circuit and [an] exposed outside of said housing,
- wherein said circuit is adjusted by an electrical signal from the outside of said housing through said conductor.

14. (Currently Amended) A physical quantity detecting device according to claim 13, wherein

- a terminal connected to said circuit and to a power source to supply power to said circuit or to the ground to be grounded is provided,

a connector opening to the outside of said housing is formed in said housing,

said conductor and said terminal are exposed inside said connector.

15. (Currently Amended) A physical quantity detecting device according to claim 13, wherein

said connector has a bottom with a hole or holes at one side and an opening formed at an opposite side to said bottom and opening to the atmosphere, and at least a part of said conductor is disposed in said hole and exposed to the atmosphere.

16. (Previously Presented) A physical quantity detecting device according to claim 13, wherein

an adhesive or an insulating material is coated on said conductor exposed outside said housing.

17. (Currently Amended) A physical quantity detecting device comprising:

a detecting element for detecting a physical quantity;

a circuit electrically connected to said detecting element;

a housing protecting said ~~detecting element~~ circuit in an inside thereof;

a concave formed outside said housing;  
a conductor electrically connecting said circuit and [an] inside of  
said concave,  
wherein said circuit is adjusted by an electrical signal from the  
outside of said housing through said conductor.

18. (Previously Presented) A physical quantity detecting device  
according to claim 17, wherein an adhesive or an insulating material is coated on  
said conductor inside said concave.

19. (Previously Presented) A physical quantity detecting device  
according to claim 17, wherein another material covering over said concave is  
provided.

20. (Previously Presented) A physical quantity detecting device  
according to claim 17, wherein a terminal electrically connected to said circuit  
and supplying power source or ground is provided,  
a connector is formed in said housing, and  
said terminal is exposed inside said connector.

21. (Currently Amended) A thermal-type air flow measuring  
instrument:

a detecting element for detecting a physical quantity;  
a circuit electrically connected to said detecting element;  
a housing protecting said ~~detecting element~~ circuit in an inside  
thereof;  
a conductor electrically connecting said circuit and [an] exposed  
outside of said housing,  
wherein said circuit is adjusted by an electrical signal from the  
outside of said housing through said conductor.

22. (Previously Presented) A thermal-type air flow measuring  
instrument according to claim 21, wherein  
a terminal connected to said circuit and supplying a power source to  
said circuit or supplying ground is provided,  
a connector opening to the outside of said housing is formed in said  
housing,  
said conductor and said terminal are exposed inside said connector.

23. (Previously Presented) A thermal-type air flow measuring  
instrument according to claim 21, wherein  
said connector has a bottom with a hole or holes at one side and an  
opening formed at an opposite side to said bottom and opening to the

atmosphere, and at least a part of said conductor is disposed in said hole and exposed to the atmosphere.

24. (Previously Presented) A thermal-type air flow measuring instrument according to claim 21, wherein  
an adhesive or an insulating material is coated on said conductor exposed outside said housing.

25. (Currently Amended) A thermal-type air flow measuring instrument;  
a detecting element for detecting a physical quantity;  
a circuit electrically connected to said detecting element;  
a housing protecting said ~~detecting element~~ circuit in an inside thereof;  
a concave formed outside said housing;  
a conductor electrically connecting said circuit and an inside of said concave,  
wherein said circuit is adjusted by an electrical signal from the outside of said housing through said conductor.

26. (Previously Presented) A thermal-type air flow measuring instrument according to claim 25, wherein

an adhesive or an insulating material is coated on said conductor  
inside said concave.

27. (Previously Presented) A thermal-type air flow measuring  
instrument according to claim 25, wherein

another material covering over said concave is provided.

28. (Previously Presented) A thermal-type air flow measuring  
instrument according to claim 25, wherein

a terminal electrically connected to said circuit and to a power  
source to supply power to said circuit or to the ground to be grounded is  
provided,

a connector is formed in said housing, and

said terminal is exposed inside said connector.

29. (Currently Amended) A thermal-type air flow measuring  
instrument according to claim 25, wherein [said thermal-type air flow measuring  
instrument is applied to] an internal combustion engine is operatively associated  
with said detecting element and said circuit.

30. (Previously Presented) A characteristic adjusting apparatus of a  
physical quantity sensing device having a sensing element for detecting various

physical quantities and an electronic circuit electrically connected to said sensing element for processing a controlled or a detected quantity of said sensing element as an electric signal, comprising:

an adjusting circuit provided in said electric circuit for performing adjustment of one of output characteristic, a controlled quantity or detected quantity of the sensing element;

a housing for containing said electronic circuit; and

an adjusting terminal electrically connected to said adjusting circuit and provided outside said housing;

wherein the output characteristic, the controlled quantity or detected quantity of said sensing element is adjustable by applying an electric signal to said adjusting terminal, wherein adjusting terminal is arranged inside a connector housing containing therein connector terminals for an output terminal for transmitting an output signal of an said electronic circuit to external equipment, a power source terminal for connecting to an power source or a ground terminal.

31. (Previously Presented) A characteristic adjusting apparatus according to claim 30, wherein said adjusting terminal is placed at an inner position more remote from an opening end of said connector housing than a position at which a connector terminal is located.

32. (Previously Presented) A characteristic adjusting apparatus according to claim 31, wherein said adjusting terminal is placed in a hole provided on a bottom of said connector housing.

33. (Previously Presented) A characteristic adjusting apparatus according to claim 30, wherein connector housing constitutes a water-proof structure for an inside portion of the connector housing with connection of an associating connector.

34. (Previously Presented) A characteristic adjusting apparatus according to claim 30, wherein said connector housing is a one-piece structure with said housing of said electronic circuit having said connector terminal and said adjusting terminal embedded.

35. (Previously Presented) A characteristic adjusting apparatus according to claim 30, wherein a multiplexer is operatively arranged between said adjusting circuit and said adjusting terminal.

36. (Previously Presented) A production method of said physical quantity detecting device according to claim 16,  
wherein after said circuit is adjusted, said adhesive or insulating material is coated.



37. (Previously Presented) A production method of said physical quantity detecting device according to claim 18,  
wherein after said circuit is adjusted, said adhesive or insulating material is coated.

38. (Previously Presented) A production method of said thermal-type air flow measuring instrument according to claim 26,  
wherein after said circuit is adjusted, said adhesive or insulating material is coated.